RESTRICTED CIRCULATION

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Agricultural Memorandum No. 710

Estimated Actual Soil Moisture Deficits, 1941-70, EAST

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Following the lines of Ag Mems 707 and 708 and using the same notation, the following multiple regressions were found:-

	L.Q.	Median	H.Q.
End of June	0.94	0.78	0.81
End of July	0.79	0.94	0.84
End of August	0.75	0.85	0.80
End of September	0.84	0.82	0.69

The formulae were:-

	L.Q.	Median	H.Q.
End of June	$0.68P_3-0.023R_3-0.65$	$0.71P_3-0.013R_3-1.53$	$0.75P_3-0.007R_3-1.93$
End of July	$0.41P_4-0.016R_4+0.98$	$0.75P_4-0.003R_4-5.05$	$0.27P_4-0.006R_4+2.13$
End of August	$0.47P_5-0.017R_5-0.36$	$0.57P_5-0.0037R_5-4.0$	$0.365P_5-0.0028R_5-0.35$
End of September	$1.15P_6-0.01R_6-14.8$	$0.485P_6-0.007R_6-2.82$	$0.33P_6-0.0045R_6+0.15$

The basic data were as follows:-

EAST

Swaffham	2.3	3.0	3.7	3.0	4.0	4.3	2.5	3.9	4.7	2.0	3.5	4.5
Sprowston	2.7	3.1	3.7	3.4	4.0	4.3	2.9	4.1	4.5	1.8	4.0	4.5
Spalding	2.2	3.0	3.6	3.0	3.8	4,3	2.7	3.8	4.5	1.8	3.7	4.4
Lowestoft	2.8	3.4	4.1	3.3	4.0	4.5	2.8	3.7	4.9	2.6	3.6	4.5
Cleethorpes	2.0	2.8	3.3	3.0	3.3	4.2	2.9	3.5	4.4	1.4	3.2	4.7
Saffron Walden	2.5	3.3	4.1	3.6	4.1	4.5	3.0	4.2	4.9	2.9	3.4	4.9
March	2.2	3.0	3.9	2.8	3.6	4.3	2.6	3.9	4.5	2.1	3.5	4.4
Sandy	2.3	2.9	4.0	3.0	3.9	4.4	2.2	4.1	4.6	2.0	3.6	4.6
Kings Lynn	2.3	3.4	3.9	3.3	4.1	4.4	3.0	4.1	4.8	2.9	3.8	4.7
Hatfield Peverel	2.8	3.6	4.1	3.5	4.2	4.7	3.6	4.5	5.0	3.5	4.3	5.0

EAST (Contd)

Cambridge	2.6	3.1	4.1	3.0	4.1	4.4	2.2	4.1	4.8	2.1	3.4	4.7
Mildenhall	2.7	3.3	4.1	3.0	4.2	4.4	3.1	4.2	4.9	2.7	3.9	5.0
St.Ives	2.3	3.0	4.0	2.8	4.0	4.4	2.0	4.0	4.7	1.3	3.6	4.7
Felixstowe	3.2	3.9	4.2	3.8	4.4	4.7	3.9	4.6	5.0	3.5	4.3	5.0

Any comments or suggestions on this paper should be referred to the author.

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Bracknell
February 1975